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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/828,917	04/21/2004	Kuo Chuan Wu	BA-22882	5641

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1077 Northern Boulevard
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EXAMINER	
UNELUS, ERNEST	

ART UNIT	PAPER NUMBER
2181	

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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary	Application No.	Applicant(s)	
	10/828,917	WU ET AL.	
	Examiner	Art Unit	
	ERNEST UNELUS	2181	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE *3* MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1)☒ Responsive to communication(s) filed on *15 November 2010*.

2a)☐ This action is **FINAL**. 2b)☒ This action is non-final.

3)☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4)☒ Claim(s) *3,4,6-10,12,14,15 and 17* is/are pending in the application.

4a) Of the above claim(s) _____ is/are withdrawn from consideration.

5)☐ Claim(s) _____ is/are allowed.

6)☒ Claim(s) *3,4,6-10,12,14,15 and 17* is/are rejected.

7)☐ Claim(s) _____ is/are objected to.

8)☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9)☐ The specification is objected to by the Examiner.

10)☒ The drawing(s) filed on *21 April 2004* is/are: a)☒ accepted or b)☐ objected to by the Examiner.

Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11)☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12)☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

a)☐ All b)☐ Some * c)☐ None of:

1.☐ Certified copies of the priority documents have been received.

2.☐ Certified copies of the priority documents have been received in Application No. _____.

3.☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) ☒ Notice of References Cited (PTO-892)
2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3) ☐ Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date _____.
4) ☐ Interview Summary (PTO-413) Paper No(s)/Mail Date. _____.
5) ☐ Notice of Informal Patent Application
6) ☐ Other: _____.

3DETAILED ACTION

RESPONSE TO AMENDMENT

Claim rejections based on prior art

A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 11/15/2010 has been entered.

The amendment filed 11/15/2011 is objected to under 35 U.S.C. 132(a) because it introduces new matter into the disclosure. 35 U.S.C. 132(a) states that no amendment shall introduce new matter into the disclosure of the invention. The added material which is not supported by the original disclosure is as follows: "said detector signals said microprocessor to control said bus switch to release the standard interface when the personal computer power-off is detected so as to operate the optical data storage drive device without the operating system of said personal computer, and signals said microprocessor to control said bus switch to resume said standard interface when the personal computer power-on is detected so as to operate the optical data storage drive device through said personal computer".

The applicant's specification does not disclose the detector to SIGNAL the microprocessor.

Applicant is required to cancel the new matter in the reply to this Office Action.

Applicant's arguments filed 11/15/2010 with respect to the rejection(s) of claim(s) 3, 4,

6-10, 12, 14-15, and 17 have been fully considered and are not persuasive.

Page 10 of applicant's remarks discloses, "Jae-Sung can only process audio, that is, play music, when the computer is off". This argument is not persuasive because, Jae-Sung, the cited reference, discloses a multimedia device, an optical drive device, that can be powered by a power source of the computer or a, independent AC power adapter connected to the multimedia device; in other words, the multimedia device is able to play disks or DVD without the computer being on. For example, see Jae-Sung 's abstract, paragraph 0024, which discloses, "the disc player 2 further includes a decoder connected to a central processing unit (CPU) 4 of the computer via a data bus for processing data of an MPEG format", or paragraph 0045, which discloses, "the current control means shown in Fig. 3 may preferably include a DC-DC converter for, when the computer is powered on, supplying 12V DC power from the main power supply 35 to the multimedia device and blocking the supply of power from the adapter 36". Please, for further detail, see paragraphs 0015, 0016, or 0043. Applicant needs to discloses the section(s) of Jae-Sung that discloses where the multimedia device can only process audio, that is, play music, when the computer is off. In other words, the multimedia device DO NOT play CDs when the computer is ON.

PLEASE NOTE; from past conversations with the applicant, as can also see from the applicant's specification, the applicant's invention is having an optical storage drive device that can be powered from an independent power supply or from a power supply of the computer that it's connected to; See the bottom of page 10 of applicant's

remarks. Jae-Sung's invention and the applicant's invention have the same functional use for the same benefits; both, discloses an optical storage drive device that can be powered from an independent power supply or from a power supply of the computer. The applicant's optical storage drive device having a memory card reader is the only difference between the applicant's invention and Jae-Sung's invention, which does not disclose the optical storage drive device, the multimedia device, having a memory card reader.

Page 11 of applicant's remarks discloses, "On the other hand, according to the present invention, a computer host reset signal (HRST) is detected through a detector and controls a standard interface (ATAPI-IDE) through a bus switch to determine whether the electrical connection between the optical data storage drive device and the personal computer is allowed such as to contribute to the access of data and the processing of the controlling signals. However, Jae-Sung does not teach such technical characteristics". With respect to this argument, see the office action below.

INFORMATION CONCERNING OATH/DECLARATION

Oath/Declaration

The applicant's oath/declaration has been reviewed by the examiner and is found to conform to the requirements prescribed in **37 C.F.R. 1.63.**

INFORMATION CONCERNING DRAWINGS

Drawings

The applicant's drawings submitted are acceptable for examination purposes.

REJECTIONS BASED ON PRIOR ART

Claim Rejections - 35 USC § 103

1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

> (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

2. **Claims 3, 4, 6-10, 12, 15, and 17** are rejected under 35 U.S.C. 103(a) as being unpatentable over Jae-Sung (EP 1117030) in view of Beckert et al. (US pat. 5,794,164).

3. As per **claim 17**, Jae-Sung discloses an optical data storage drive device (**the multimedia device 40, as discloses in fig. 4a and paragraph 0040, which further discloses the combination of the disc player 2 and the audio signal amplification circuitry 8 as the multimedia device 40**) which is used as a built-in or external device to a personal computer utilizing a bus switch (**control circuit 38, as discloses in paragraph 0045**) to release/resume a standard interface between the personal computer and the optical data storage drive device (**see paragraph 0045**), said optical data storage drive device comprising:

a video and audio input/output selector (**CD-ROM interface, as discloses in paragraph 0025. see also paragraph 0019, which disclose the CD player or a DVD player**) which

inputs/outputs video and audio signals to the built-in/external optical data storage drive device **(see paragraph 0025)**;

a video and audio encoder/decoder which encodes the inputted video and audio signals before storing and decodes stored video and audio signals before outputting to said built-in/external optical data storage drive device through said video and audio input/output selector **(see paragraph 0012 and paragraph 0038, which discloses "As stated previously, the disc player 2 may further include a decoder and encoder for decoding and encoding an MPEG file, respectively. By means of this construction, a real-time input audio signal can be compressed and stored in the form of an MPEG file, and MPEG audio data from the CPU can be decoded, amplified and reproduced through the speaker")**;

a microprocessor **(microcomputer 22 of fig. 2, as disclose in paragraphs 0034 and 0048)** which controls the operation of an optical storage device in accordance with a key-in or prestored instruction **(see paragraphs 0034 and 0048)**, said optical storage device **(a DVD, as discloses in paragraph 0019)** stores the encoded video and audio signal and data coming from said microprocessor through said bus switch **(see paragraph 0034) (the switch is being equated to the control circuit 38, as discloses in paragraph 0045. The paragraph discloses the detection port 37 to switch between the two power source)**; said reads/writes the encoded video and audio signal and data coming from said microprocessor through said bus switch**(see paragraph 0034)**;

a status display **(display 28, as discloses in paragraph 0048** which displays the operation status of said optical storage device and data of the personal computer, said status

display being controlled by a display controller **(operational panel 42)** connected to said microprocessor **(see paragraph 0048)**;

a power amplifier **(power amplifier 18)** connected to said video and audio encoder/decoder for amplifying the input signal and decoded output audio signal **(see paragraph 0028)**;

a speaker **(speaker 10)** connected to said power amplifier for outputting the amplified audio signal **(see fig. 2)**; and

a detector **(detection port 37 of fig. 3)** for detecting a working voltage of the personal computer **(see paragraph 0045)** or a host reset signal on the standard interface between the personal computer and the optical data storage drive device **(because of the 'or' in the limitation above, the reference disclosing a detecting of a voltage of the computer meets the limitation)**, whereby if either signal is detected the personal computer is power-on and if neither signal is detected the personal computer is power-off **(see paragraphs 0043 and 0045)**,

said detector signals **(the activation signal, as discloses in paragraph 0045)** said microprocessor to control said bus switch to release the standard interface when the personal computer power-off is detected so as to operate the optical data storage drive device without the operating system of said personal computer, and signals said microprocessor to control said bus switch to resume said standard interface when the personal computer power-on is detected so as to operate the optical data storage drive device through said personal computer **[See paragraph 0045, which discloses, "A detection port 37 is connected to the multimedia device to check voltage (for example, 0 volt) when the multimedia device is not in operation and make a power control terminal 39 active in accordance with the checked result")]**.

Jae-Sung fails to specifically disclose a "read/write of the BIOS data of the personal computer", "said memory card reader reads/writes the encoded video and audio signal and data coming from said microprocessor through said bus switch", and "a status display displayed the operation status of said memory card reader, and a BIOS of the personal computer");

Beckert discloses "read/write of the BIOS data of the personal computer" **(see col. 8, line 62 to col. 9, line 8)**, a memory card reader **(smart card reader 42 in fig. 3)**, for reading/writing the encoded video and audio signal and data coming from said microprocessor through said bus switch **(see fig. 3)**, and a status display displayed the operation status of said memory card reader and a BIOS of the personal computer **(see col. 9, lines 42-53)**"

Jae-Sung (EP 1117030) and Beckert et al. (US pat. 5,794,164) are analogous art because they are from the same field of endeavor of multimedia computer device.

At the time of the invention it would have been obvious to a person of ordinary skill in the art to modify the multimedia device for a personal computer comprising a disc player connected to a central processing unit of the personal computer and adapted to play back compact disc as described by Jae-Sung and a vehicle computer system has a housing sized to be mounted in a vehicle dashboard or other appropriate location as taught by Beckert.

The motivation for doing so would have been because Beckert teaches a multimedia device with a card reader that permits someone to store data.

Therefore, it would have been obvious to combine Beckert et al. (US pat. 5,794,164) and Jae-Sung (EP 1117030) for the benefit of creating the optical storage drive device to obtain the invention as specified in claim 17.

4. As per **claim 3**, the combination of Jae-Sung and Beckert disclose "Wherein said optical storage driving device is of stand-alone type **[with respect to this limitation, see Jae-Sung, paragraph 0016]**.

5. As per **claim 4**, the combination of Jae-Sung and Beckert disclose "wherein said optical storage driving device is of portable type" **[with respect to this limitation, see Jae-Sung, paragraph 0010]**.

6. As per **claim 6**, the combination of Jae-Sung and Beckert disclose "wherein said built-in/external device can be a video/audio signal providing device and a video/audio signal player including television, projector, plasma display panel, liquid crystal display and monitor of a personal computer" **[with respect to this limitation, see Jae-Sung, paragraph 0010]**.

7. As per **claim 7**, the combination of Jae-Sung and Beckert disclose "wherein said optical storage device including {one of } CD-ROM, CD-R, CD-RW, DVD-ROM, DVD-R, DVD-RW, DVD+R, DVD+RW and DVD-RAM servers" **[with respect to this limitation, see Jae-Sung, paragraph 0019]**.

8. As per **claim 8**, the combination of Jae-Sung and Beckert disclose "wherein said status display includes one of vacuum fluorescent display (VFD) and liquid crystal display (LCD)" **[with respect to this limitation, see Jae-Sung, fig. 2]**.

9. As per **claim 9**, the combination of Jae-Sung and Beckert disclose "wherein said display is used to display the mode selection, adjustment controlling, and status indicator of said functions" **[with respect to this limitation, see Jae-Sung, paragraph 0048, which discloses "The operating panel 42 and display (preferably, VFD) 28 are installed in the front part of the multimedia device, thereby allowing the user to conveniently control the device and view the operating state of the device"]**.

10. As per **claim 10**, the combination of Jae-Sung and Beckert disclose "wherein said personal computer includes one of a desktop computer, notebook computer, tablet computer and Macintosh computer" **[with respect to this limitation, see Jae-Sung, fig. 5]**.

11. As per **claim 12**, the combination of Jae-Sung and Beckert disclose "wherein said standard interface can be one of the ATAPI-IDE, the serial ATA or SCSI, the USB 1.1/2.0 built-in or externally connected to a personal computer and a IEEE 1394 standard interface" **[with respect to this limitation, see Jae-Sung, fig. 5]**.

12. As per **claim 15**, the combination of Jae-Sung and Beckert disclose "wherein said optical storage driving device is powered by DC or AC power supply" **[with respect to this limitation, see Jae-Sung, paragraph 0045]**.

13. **Claims 14** is rejected under 35 U.S.C. 103(a) as being unpatentable over Jae-Sung (EP 1117030) and Beckert et al. (US pat. 5,794,164) as applied to claim 16 above, and further in view of Kovacevic (US 2002/0126703).

14. As per **claim 14**, Jae-Sung and Beckert disclose "The optical storage driving device as set forth in claim 17," **[See rejection to claim 1 above],** including a connecting device equipped with a power connector, a CD analogue audio output connector **(see, Beckert, fig. 4),** while said connecting device has a dominating bus and an input/output bus so as to increase the expandability of said optical storage driving device **(see, Beckert, fig. 4, which discloses the vehicle battery having 10-16volts compare to the power supply being only12, that's the reason why the vehicle battery bus will dominate over an input/output bus so as to increase the expandability of said optical storage driving device. See col. 6, lines 3-18),** but fail to specifically discloses a Sony-Phillips digital interface (SPDIF) output connector.

Kovacevic discloses a Sony-Phillips digital interface (SPDIF) output connector **(see paragraph 0018).**

Jae-Sung (EP 1117030), Beckert et al. (US pat. 5,794,164), and Kovacevic (US 2002/0126703) are analogous art because they are from the same field of endeavor of multimedia computer device.

At the time of the invention it would have been obvious to a person of ordinary skill in the art to modify the multimedia device for a personal computer comprising a disc player

connected to a central processing unit of the personal computer as described by Jae-Sung and Beckert and a method of synchronizing the output of processed audio data to the output of processed video data as taught by Kovacevic.

The motivation for doing so would have been because Kovacevic teaches a Sony-Phillips digital interface (SPDIF) output connector help with conversion **(see paragraph 0018)**

Therefore, it would have been obvious to combine Kovacevic (US 2002/0126703) and Beckert et al. (US pat. 5,794,164) with Jae-Sung (EP 1117030) for the benefit of creating a multimedia computer device for to obtain the invention as specified in claim 14.

RELEVANT ART CITED BY THE EXAMINER

The following prior art made of record and not relied upon is cited to establish the level of skill in the applicant's art and those arts considered reasonably pertinent to applicant's disclosure. See **MPEP 707.05(c)**.

The following reference teaches a multi-functional optical disk driving device.

U.S. PATENT NUMBER

US 2003/0210900; 2004/0133716

CLOSING COMMENTS

Conclusion

a. STATUS OF CLAIMS IN THE APPLICATION

The following is a summary of the treatment and status of all claims in the application as recommended by **M.P.E.P. 707.07(i)**:

a(1) CLAIMS REJECTED IN THE APPLICATION

Per the instant office action, claims 3, 4, 6-10, 12, 14-15, and 17 have received a first action on the merits and are subject of a first action non-final.

DIRECTION OF FUTURE CORRESPONDENCES

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ernest Unelus whose telephone number is (571) 272-8596. The examiner can normally be reached on Monday to Friday 9:00 AM to 5:00 PM.

IMPORTANT NOTE

If attempts to reach the above noted Examiner by telephone are unsuccessful, the Examiner's supervisor, Mr. Alford Kindred, can be reached at the following telephone number: Area Code (571) 272-4037.

The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PMR system, see her//pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217- 91 97 (toll-free).

/Alford W. Kindred/
Supervisory Patent Examiner, Art Unit 2181

Ernest Unelus
Patent Examiner
Art Unit 2181

March 21, 2011
/E. U./
Examiner, Art Unit 2181